

Atty Docket: HES 2003-IP-012001
(1391-45200)

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: David Joe Steele, *et al.* §
Serial No.: 10/680,901 § Group Art Unit: 3672
Filed: October 6, 2003 § Examiner: N/A
For: LOOP SYSTEMS AND METHODS OF USING § Confirmation No.: 6365
THE SAME FOR CONVEYING AND
DISTRIBUTING THERMAL ENERGY INTO A
WELLBORE §

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

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Edith Shek

INFORMATION DISCLOSURE STATEMENT

Commissioner:

This Information Disclosure Statement, including completed Form PTO-1449, comprises a list of pertinent art of which Applicants are aware. A copy of each foreign patent and publication listed on Form PTO-1449 is enclosed herewith.

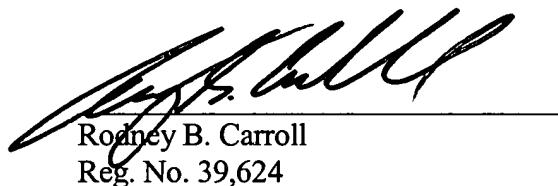
As a part of this submission, an electronic Information Disclosure Statement (eIDS) is being transmitted on this date, and includes a listing of the U.S. Patents and Published Applications. A

printed copy of that submission is attached hereto. In accordance with 37 C.F.R. 1.98(e), no paper copies of those U.S. Patent and Published Applications are enclosed.

The submission of this Information Disclosure Statement and Form PTO-1449 is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and that situation warrant such an action. It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

Respectfully submitted,
CONLEY ROSE, P.C.

Date: 3-29-04



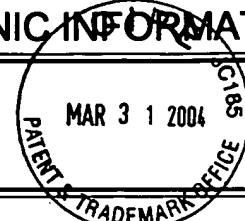
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ATTORNEY FOR APPLICANTS

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
Stylesheet Version v18.0



Title of Invention	Loop Systems And Methods Of Using The Same For Conveying And Distributing Thermal Energy Into A Wellbore													
Application Number:	10/680901 *10/680901*													
Confirmation Number:	6365													
First Named Applicant:	David Steele													
Attorney Docket Number:	1391-45200													
Art Unit:	3672													
Search string:	(6607036 or 6588500 or 6257334 or 6053992 or 5957202 or 5860475 or 5199497 or 5085275 or 4641710 or 6433991 or 5613634 or 4619320 or 20030155111 or 20030155113).pn.													
US Patent Documents														
Note: Applicant is not required to submit a paper copy of cited US Patent Documents														
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass							
	1	6607036	2003-08-19	Ranson et al.	166	302								
	2	6588500	2003-07-08	Lewis	166	61								
	3	6257334	2001-07-10	Cyr et al.	166	272.7								
	4	6053992	2000-04-25	Wu et al.	148	402								
	5	5957202	1999-09-28	Huang	166	272.3								
	6	5860475	1999-01-19	Ejiogu et al.	166	245								
	7	5199497	1993-04-06	Ross	166	381								
	8	5085275	1992-02-04	Gondouin	166	303								
	9	4641710	1987-02-10	Klinger	166	303								
	10	6433991	2002-08-13	Deaton et al.	361	191								
	11	5613634	1997-03-25	Veronesi et al.	236	101								
	12	4619320	1986-10-28	Adnyana et al.	166	65.1								

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications



init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20030155111	2003-08-21	Vinegar et al.		166	59
	2	20030155113	2003-08-21	Mitchell et al.		166	68.5

Signature

Examiner Name	Date

UNITED STATES PATENT AND TRADEMARK OFFICE
ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1
 Stylesheet Version v1.1.1



Title of Invention	Loop Systems And Methods Of Using The Same For Conveying And Distributing Thermal Energy Into A Wellbore
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Submission Type: Information Disclosure Statement

Application Number: 10/680901 *10/680901*

EFS ID: 58024

Server Response:

Confirmation Code	Message
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application
ICON1	6365
ISYS5	Filename= N/A BusinessRule= Validation System/Function Call Information. #Supporting Msg:Server unable to validate the Confirmation/Application numbers at this time. They will be checked by PTO personnel later.

First Named Applicant: David Steele

Attorney Docket Number: 1391-45200

Timestamp: 2004-03-29 11:05:37 EDT

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Doc. Name	File Name	Size (Bytes)
us-ids	1391-45200-usidst.xml	4023
us-ids	us-ids.dtd	7763
us-ids	us-ids.xsl	12026
package-data	1391-45200-pkda.xml	1931
package-data	package-data.dtd	27025
package-data	us-package-data.xsl	19263
Total files size		72031

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Substitute for form 1449/PTO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Use as many sheets as necessary)</small>		Application Number	10/680,901	
		Filing Date	October 6, 2003	
		First Named Inventor	David Joe Steele	
		Art Unit	3672	
		Examiner Name	Not Assigned	
Sheet 1 of 1	of	3	Attorney Docket Number	2003-IP-012001 (1391-45200)

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		County Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	AA	GB 2 385 078	08/13/2003	Baker Hughes		
	AB	GB 2 371 578A	07/31/2002	Baker Hughes		
	AC	EP 0 841 510 B1	01/09/2002	Matsushita		
	AD	EP 0 841 510 A1	05/13/1998	Matsushita		
	AE	EP 0 697 315 A3	04/15/1998	Daewoo		
	AF	EP 0 697 315 A2	02/21/1996	Daewoo		

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				First Named Inventor	David Joe Steele
				Art Unit	3672
				Examiner Name	N/A
Sheet	2	of	3	Attorney Docket Number	2003-IP-012001 (1391-45200)

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers(s), publisher, city and/or country where published.	T ²
	AA	ANDERSEN, A., et al, "Feasibility Study of Shape Memory Alloys in Oil Well Applications," <i>Sintef Petroleum Research</i> , 01/97, pp. 1-5, 58, 60, 63, 66-67, 83, 85-86.	
	AB	"Design of Fluid Systems, Steam Utilization," <i>Spirax Sarco</i> , 1951, pp. 1-8, 21-27, 68-71.	
	AC	DOAN, L.T., et al, "Performance of the SAGD Process in the Presence of Water Sand- A Preliminary Investigation," <i>Journal of Canadian Petroleum Technology</i> , January 2003, Vol. 42, No.1, pp. 25-41.	
	AD	ERLANDSEN, SIGURD, et al, "World's First Multiple Fiber Optic Intelligent Well," <i>World Oil</i> , March 2003, Vol. 224, No. 3, 8 pages.	
	AE	Figure 9, Typical Steam Circuit, "Design of Fluid Systems: Steam Utilization," <i>Spirax Sarco</i> , Copyright 1985, p. 11.	
	AF	NASR, T.N., et al, "Novel Expanding Solvent-SAGD Process ES-SAGD," <i>Journal of Canadian Petroleum Technology</i> , Technical Note, 4 pages.	
	AG	NASR, T.N., et al, "SAGD Application In Gas Cap and Top Water Oil Reservoir," <i>Journal of Canadian Petroleum Technology</i> , January 6, 2003, pp.32-38.	
	AH	POTMA, J., et al, "Thermal Horizontal Completions Boost Heavy Oil Production," <i>World Oil</i> , February 2003, pp. 83-85.	
	AI	Total Canada- Request for Proposal- SAGD Steam Diversion Systems, Methods, and Cost Estimate, 3 pages.	
	AJ	WALLS, E., et al, "Residual Oil Saturation Inside the Steam Chamber During SAGD," <i>Journal of Canadian Petroleum Technology</i> , January 2003, Vol. 42, No. 1, pp. 39-47.	
	AK	http://www.conocophillips.com/canada/news/032502_gas_bitumen.asp , 10/1/2003, 2 pages.	
	AL	http://www.conocophillips.com/canada/ops/surmont.asp , 10/1/2003, 2 pages.	
	AM	Fluid Injection into Tight Rocks, http://www.132.175.127.176/ngotp/projects/ngotp.cfm?Project ID=OGRT-010 , 8/11/2003.	
	AN	P.C. McKenzie Company, "How does an Amot Thermostic Control Valve Work?" http://www.mckenziecorp.com/amot_valve.htm , 9/4/2003.	

Examiner Signature		Date Considered
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* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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				Application Number	10/680,901
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				First Named Inventor	David Joe Steele
				Art Unit	3672
				Examiner Name	N/A
Sheet	3	of	3	Attorney Docket Number	2003-IP-012001 (1391-45200)

NON PATENT LITERATURE DOCUMENTS

	AO	GIULIANI, C., et al; "Flow Rate Allocation in Smart Wells"; High-Tech Wells Conference, February 11-13, 2003; Galveston	
	AP	1995 Press Release; "Halliburton Introduces Durasleeve For Easier Shifting, Better Seal and Lower Total Costs"; http://www.halliburton.com/news/archive/1995/hesnws_100995.jsp ; 1 page	
	AQ	Flow Control – Systems and Products – Sliding Sleeves; Baker Hughes; http://www.bakerhughes.com/bot/completions/flow_control/products_sliding.htm ; 1 page	
	AR	Well Dynamics – Transforming Reservoirs Using SmartWell Technology, http://www.welldynamics.com/main.htm ; 8 pages	
	AS	Steam Assisted Gravity Drainage (SAGD); Alberta Energy Research Institute; http://www.aeri.ab.ca/sec/suc_sto/suc_sto_001_2.cfm ; 2 pages	
	AT	In Situ Technology, http://www.energy.gov.ab.ca/com/Sands/Royalty+Info/Royalty+Related+Info/The+Ne , 1 page	
	AU	North American Oil Reserves 2001; Alberta Energy Research Institute, http://www.energy.gov.ab.ca/cmn/docs/Oil_Reserves_2001.pdf ; 2 pages	
	AV	BlackRock Seeks Approval to Develop Orion SAGD Project, http://www1.newswire.ca/releases/August2001/02/c6924.html .	

Examiner Signature		Date Considered
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